

## CLAIMS

I claim:

- 1 1. A method of activating a mobile station for communicating with a  
2 telecommunications network, comprising the steps of:  
3 (a) in a first registration, providing the mobile station with a permanent  
4 mobile station ID;  
5 (b) in a second registration, receiving the permanent mobile station ID  
6 from the mobile station; and  
7 (c) communicating programming data to the mobile station.
- 1 2. The method recited in Claim 1, wherein said first registration comprises  
2 the steps of:  
3 (a) receiving a temporary activation mobile station ID from a mobile  
4 station;  
5 (b) verifying the temporary activation mobile station ID ; and  
6 (c) communicating a permanent mobile station ID to the mobile station.
- 1 3. The method recited in Claim 2, wherein said second registration comprises  
2 the steps of:  
3 (d) receiving the permanent mobile station ID from the mobile station;  
4 (e) verifying the permanent mobile station ID ; and  
5 (f) communicating programming data to the mobile station.

1 4. A method of activating a mobile station for communicating with a  
2 telecommunications network, comprising the steps of:

3 (a) receiving a temporary activation mobile station ID from a mobile  
4 station;

5 (b) verifying the temporary activation mobile station ID;

6 (c) communicating a permanent mobile station ID to the mobile station;

7 (d) receiving the permanent mobile station ID from the mobile station;

8 (e) verifying the permanent mobile station ID; and

9 (f) communicating programming data to the mobile station.

1 5. The method recited in Claim 4, wherein step (a) further comprises the  
2 steps of receiving the temporary activation mobile station ID and an ESN of the  
3 mobile station at a mobile switching center, and sending a registration notification  
4 to an over-the-air activation function; and step (b) further comprises sending a  
5 registration notification containing the permanent mobile station ID from the  
6 over-the-air activation function to the mobile switching center.

1 6. The method recited in Claim 5, wherein step (d) further comprises  
2 receiving the permanent mobile station ID and ESN from the mobile station at the  
3 mobile switching center; and step (e) further comprises the mobile switching  
4 center sending a registration notification to a home location register assigned to  
5 the permanent mobile station ID.

7. The method recited in Claim 6, wherein step (f) comprises:

the over-the-air activation function sending programming data to the

mobile switching center identified by the home location register;

the mobile switching center sending a SPACH notification of R-data to the

mobile station;

the mobile switching center receiving a SPACH confirmation from the

mobile station;

the mobile switching center sending programming data to the mobile

station;

the mobile switching center receiving from the mobile station an

acknowledgement of receipt of the programming data; and

the mobile switching center notifying the over-the-air activation center of

a successful download of programming data to the mobile station.

8. A method of activating a mobile station for communicating with a

telecommunications network, comprising the steps of:

(a) receiving a temporary activation mobile station ID and ESN from a

mobile station at a mobile switching center and sending a registration notification

to an over-the-air activation function;

(b) verifying the temporary activation mobile station ID and sending a

registration notification from the over-the-air activation function containing the

permanent mobile station ID to the mobile switching center;

(c) communicating a permanent mobile station ID to the mobile station;

- 10 (d) receiving the permanent mobile station ID and ESN from the mobile  
11 station at the mobile switching center;
- 12 (e) verifying the permanent mobile station ID; and sending a registration  
13 notification to a home location register assigned to the permanent mobile station  
14 ID; and
- 15 (f) the over-the-air activation function sending programming data to the  
16 serving mobile switching center identified by the home location register;
- 17 (g) the mobile switching center sending a SPACH notification of R-data to  
18 the mobile station;
- 19 (h) the serving mobile switching center receiving a SPACH confirmation  
20 from the mobile station; and
- 21 (i) the mobile switching center sending programming data to the mobile  
22 station.